SEQUENCE LISTING

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<110> ABGENIX, INC.
      PUBLIC HEALTH RESEARCH INSTITUTE
      PINTER, ABRAHAM
      HE, YUXIAN
      CORVALAN, JOSE R.
<120> USE OF TRANSGENIC MICE FOR THE EFFICIENT ISOLATION OF
      NOVEL HUMAN MONOCLONAL ANTIBODIES WITH NEUTRALIZING
      ACTIVITY AGAINST PRIMARY HIV-1 STRAINS
<130> ABX-PHRI PCT
<140> PCT/US02/02171
<141> 2002-01-25
<160> 28
<170> PatentIn Ver. 2.1
<210> 1
<211> 93
<212> PRT
<213> Human immunodeficiency virus type 1
Leu Lys Pro Cys Val Lys Leu Thr Pro Leu Cys Val Thr Leu His Cys
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Thr Asn Leu Lys Asn Ala Thr Asn Thr Lys Ser Ser Asn Trp Lys Glu
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Met Asp Arg Gly Glu Ile Lys Asn Cys Ser Phe Lys Val Thr Thr Ser
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Ile Arg Asn Lys Met Gln Lys Glu Tyr Ala Leu Phe Tyr Lys Leu Asp
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Val Val Pro Ile Asp Asn Asp Asn Thr Ser Tyr Lys Leu Ile Asn Cys
Asn Thr Ser Val Ile Thr Gln Ala Cys Pro Lys Val Ser
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<21:0> 2
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Lys
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Cys Thr Arg Pro Asn Asn Thr Arg Lys Ser Ile Thr Ile Gly Pro
Gly Arg Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Gln
Ala His Cys
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Gly Arg Ala Phe Tyr Thr Thr Gly Glu Ile Ile Gly Asp Ile Arg Gln
Ala His Cys
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Arg Ala Phe Tyr Thr Thr Lys Asn Ile Ile Gly Thr Ile Arg Gln Ala
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His
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Gly Arg Ala Phe Tyr Thr Thr Lys Asn Ile Ile Gly Thr Ile Arg Gln
Ala His Cys
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Cys Thr Arg Pro Asn Tyr Asn Lys Arg Lys Arg Ile His Ile Gly Pro
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Gly Arg Ala Phe
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Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn Ile
Ile Gly Thr Ile
<210> 11
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Tyr Thr Thr Lys Asn Ile Ile Gly Thr Ile Arg Gln Ala His Cys Asn
Ile Ser Arg Ala
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Phe Tyr Thr Thr Lys Asn Ile Ile
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<210> 13
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Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile Arg Ile Gln Arg Gly
Pro Gly Arg Ala Phe Val Thr Thr Gly Lys Ile Gly Asn Met Arg Gln
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Ala His
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agacatctag aatgagagtg aaggggatca gg
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gctccgaatt cttattatct tttttctctc tg
<210> 16
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<212> PRT
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<400> 16
Lys Glu Met Asp Gly Glu Ile Lys
<210> 17
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Lys Glu Met Asp Arg Gly Glu Ile Lys Asn Cys Ser Phe Lys Val Thr
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Thr Ser Ile Arg Asn Lys Met Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
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Asn Cys
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Asn Cys Ile Asp Leu Arg Asn Ala Thr Asn Ala Thr Ser Asn Ser Asn
Thr Thr Asn Thr Thr Ser Ser Ser Gly Gly Leu Met Met Glu Gln Gly
Glu Ile Lys Asn Cys Ser Phe Asn Ile Thr Thr Ser Ile Arg Asp Lys
Val Gln Lys Glu Tyr Ala Leu Phe Tyr Lys Leu Asp Ile Val Pro Ile
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<212> PRT

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Leu Asp Val Val Pro Ile Asp Asn Asn Asn Thr Ser Tyr Arg Leu Ile
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Ser Cys
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<210> 21
<211> 72
<212> PRT
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Thr Ser Ser Ser Arg Gly Met Val Gly Gly Glu Met Lys Asn Cys
             20
                                                     30
Ser Phe Asn Ile Thr Thr Asn Ile Arg Gly Lys Val Gln Lys Glu Tyr
                             40
Ala Leu Phe Tyr Lys Leu Asp Ile Ala Pro Ile Asp Asn Asn Ser Asn
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Asn Arg Tyr Arg Leu Ile Ser Cys
<210> 22
<211> 67
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 22
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Arg Met Ile Met Glu Lys Gly Glu Ile Lys Asn Cys Ser Phe Asn Ile
Ser Thr Ser Ile Arg Gly Lys Val Gln Lys Glu Tyr Ala Phe Phe Tyr
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Thr Ser Cys 65

Lys Leu Asp Ile Ile Pro Ile Asp Asn Asp Thr Thr Ser Tyr Lys Leu

55

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<211> 72
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 23
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Asn Asn Asn Ser Asn Ser Glu Gly Thr Ile Lys Gly Glu Met Lys
Asn Cys Ser Phe Asn Ile Thr Thr Ser Ile Arg Asp Lys Met Gln Lys
Glu Tyr Ala Leu Leu Tyr Lys Leu Asp Ile Val Ser Ile Asn Asp Ser
    50
                         55
Thr Ser Tyr Arg Leu Ile Ser Cys
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<210> 24
<211> 71
<212> PRT
<213> Human immunodeficiency virus type 1
Asn Cys Thr Asp Leu Gly Lys Ala Thr Asn Thr Asn Ser Ser Asn Trp
                                     10
Lys Glu Glu Ile Lys Gly Glu Ile Lys Asn Cys Ser Phe Asn Ile Thr
                                 25
Thr Ser Ile Arg Asp Lys Ile Gln Lys Glu Asn Ala Leu Phe Arg Asn
Leu Asp Val Val Pro Ile Asp Asn Ala Ser Thr Thr Asn Tyr Thr
Asn Tyr Arg Leu Ile His Cys
65
<210> 25
<211> 10
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 25
Tyr Thr Thr Lys Asn Ile Ile Gly Thr Ile
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<210> 26
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<212> PRT
<213> Human immunodeficiency virus type 1
<400> 26
Gln Lys Glu Tyr Ala Leu Phe Tyr Lys
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<210> 23

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<210> 27
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<213> Artificial Sequence
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<223> Description of Artificial Sequence: Synthetic
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            20
Ala His Cys
<210> 28
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<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: 6 His tag

<400> 28

His His His His His 1 5

1

9